291 a typical outfit with special characteristics.
184 For instance, the men of Tenejapa wear a hat of broad brim and pointed round crown, trimmed with thin ribbons of different colors. They also wear a dark chamarra or poncho with thin white stripes. The characteristic clothes of Cancuc are short, tight pants and a long shirt trimmed with red wool yarn. In Tierra Caliente the wool chamarra is not used nor is the variation in outfit so well defined.

Transportation

482 Men and pack animals are the principal
[484] carriers in the Tzeltal region, which is
[487] crossed in all directions by narrow trails.
[492] Men carrying loads of 40–50 kg. usually
482 walk, in one day, as far as 8 leguas
147 (leagues). According to Blom and LaFarge (1926–27, 2:386), the Tzeltal of the highlands are so strong "que ponen en vergüenza a una mula." In 1944 I observed Indians
[565] passing by my Yochib camp, carrying chairs on their shoulders, in which a lady or a child of upper-class Ladinos from Ocosingo
492 and Yajalon would be sitting. Pack animals are now becoming common among the Tzeltal, some of whom also have saddle horses.
491 Part of the Tzeltal-Tzotzil region is crossed by the Pan-American Highway joining Guatemala and Mexico City. In recent years, roads called "brechas de penetración" for motor vehicles are being constructed.
474 The natives of some communities (Oxchuc
493 and Chanal) have organized cooperatives and purchased their own trucks.

804 *Units of Measure*

The system of measures still retains aboriginal characteristics. The main units are:

Nab: Distance between the end of the thumb and the middle finger extended.

Chutub: Distance between the end of the thumb and the index finger extended. It is equivalent to the jeme. The Indians do not use the cuarta (distance between the thumb and little finger extended).

[P 208-B]

5: Blom & LaFarge A,E-4,5 (1925) 1927 NV9 Tzeltal NV9

Revolutions have since destroyed the herds, and the town now has only a small local trade in sugar and rum.

All goods are transported on mule-back over bad trails. Main trails run to Yajalon, San Cristóbal las Casas, and Comitan. Minor trails connect with Tenosique in Tabasco, a ride of five or six days through uninhabited forests. Other small trails lead into the heart of the forests along the Usumacinta river, where there are a few mahogany camps, fourteen days distance on a good mule.

The Spanish Conquerors had quickly discovered the richness of the soil and taken possession of it. Therefore, we find but a few Indians around Ocosingo, save at the small town of Sivacá, entirely inhabited by Tzeltal-speaking Indians. From there we secured our labourers, who were summoned by the municipal president and worked for us at the regulation pay of 50 centavos per day. Ocosingo holds sway over the native towns of Sivacá, Tenango, Oschuc, San Martín, and Bachajon. The municipality commands the Indians for all kinds of work, and in many ways lives on what can be pressed from them. As a consequence, the good people of Ocosingo are anything but popular among the Indians, though it appears that the man then in charge, Señor Simon Leon, was quite friendly towards them, and therefore well liked.

Geologically, the Ocosingo Valley is a syncline, the valley bottom and the interior mountain ranges being of a coarse red sandstone, and the exterior ranges of limestone. The axis of the valley runs approximately N-80-W to S-80-E, and Ocosingo town is located at an altitude of 900 meters above sea level.

As we rode into the village, La Farge discovered a stone block, carved with hieroglyphs, set in the pavement of the sidewalk, an excellent reception for archaeologists.

Our first concern was to find quarters, which we located in a house on the corner of a street leading into the Plaza. Soon our equipment was unloaded, and while we unpacked, the Ladino guide we had acquired in Bachajon went to his house to order food for us.

The restaurant and meal were a surprise, though not pleasant. In a room with a rotten board floor, the plaster falling off the walls, and a huge box full of saints, we were served fried eggs and black beans by an old woman with a large goitre. Though nothing in the house appeared to be either particularly exclusive or clean, the Ladino family seemed to resent that we sat down at the table with our chief guide, the trusty old Indian, Lázaro, now called "Tata" by us.

5: Blom & LaFarge A,E-4,5 (1925) 1927 NV9 Tzeltal NV9

tied by a string carried down to an arched stick, H, stuck in the ground. This string, by holding down the far ends, counterbalances the weight of the fall at the other ends. At the end of the string the cross-stick, D, holds it against the arch; it, in turn, is held by the trigger, C, one end of which braces against it, the other end against the far side of the trap, passing under the deadfall. A circular fence of sticks prevents an animal from getting at the outer part of the trap. A straight fence on the other side of the fall necessitates its entering through the entrance, AA, to get at the bait, B, on the trigger. The animal dislodges the trigger, releasing D and with it the string. The outer ends of the sticks fly up, and the weighted log falls. In the rat trap, the log and stones came to at least three kilograms, arranged to fall through a space of about ten centimeters, other traps being in proportion.

When hunting with a gun, a red fruit called *ahoon* is frequently rubbed on the shot, and *palma bendita, tcul-těc-wil can,* the palm used in church decorations, is used for the wad. This prevents the bullet "from getting tired" before it reaches its mark.

Meat obtained while hunting, if it cannot be carried immediately to the house, is dried on a rack, *tcax.*

The primary method of carrying goods of all kinds is by the tump-line, for which, as has been said in the discussion of physical and other characteristics, these people are very well adapted. The tump-line, *pak,* is a broad strip of inner bark, or of cow-hide. For their ordinary uses, this is a single strip, the ends being attached to a net (q. v.) of their own manufacture. When a package too bulky for the net is carried, a long strap is used with the ends tied together. This is looped through itself, around the package, so that it hangs in two slings. Additional straps may be attached to the line where it passes over the ears, to wrap around the sides of the burden. A flat piece of cowhide, *tcokHax,* is worn against the back, to protect the carrier from the chafing of his load. Both men and women use the tump-line, the carrying of objects on the head being unusual.

Formerly the Indians of this district are said to have owned a good many mules and horses for packing, which they lost during the recent political disturbances. Many of them know something about packing. At present, however, few if any own cattle of any kind.

The highland rivers do not, on the whole, lend themselves to water travel, although the Bachajon territory reaches to the Bascan, Tulija, and other more amenable water-ways. Canoes are known only as introductions of German or Ladino ranchers. The natives use a

5: Blom & LaFarge A,E-4,5 (1925) 1927 NV9 Tzeltal NV9
Tenejapa
Amatenango

one of them had developed fever, "so that he lost his breath," and another had made almost the whole trip with two kayaks, over 200 lbs. on his back. They camped on the Town Hall porch where we, with our beds on piles of grass in a room labelled *"Commandancia,"* heard them, as we fell asleep, still chattering over a friendly bottle. Here, as long ago at Ocozotepec, our goods and saddles were stored in the jail, the room next ours, bearing the tactful label in red and blue, *"Prevencion."* Our grass beds were soft and sweet. The big door framed a little of the plaza, the fountain, a cottage with a narrow barred, candle-lit window, and the towering back-drop of cliffs behind, reaching to the stars, with one small winking fire, high up, from some Indian's house. We heard our *cargadores'* low chatter-

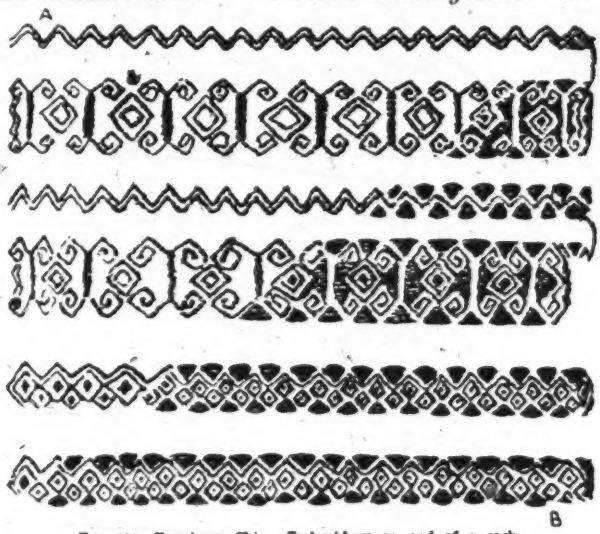

FIG. 331—Tenejapa, Chis. Embroidery on end of a sash.
A. Front. B. Back.

ing, the play of the fountain, a distant guitar. The air was fresh with pines and sweet grass and mountain coolness. We were in a magic country, and we were very, very tired.

Although it breaks the sequence of our journey, it seems best to mention the town of Amatenango here in connection with the other Highland Tzeltal tribes. We passed through it just beyond Teopisca on our way to Comitan, having no time to stop off. The people had been observed in San Cristóbal, where they come in to trade their famous pottery, men and mules alike piled high with loads twice their size.

5: Blom & LaFarge A,E-4,5 (1925) 1927 NV9 Tzeltal NV9
Amatenango
Tenejapa

Amatenango lies in an open valley. It is estimated at three hundred houses, each in a fenced yard of good size, and shaded with fruit trees. The houses are large and well built, of mud and grass thatch, with porches. The small church and Town Hall are tiled-roof and stuccoed. The fields, which lie close around the town, and the gardens in the town itself are watered by a stream brought down a very pretty, roaring flume from higher land behind the village. The irrigation system is fairly elaborate, and is unique in this area as far as we know.

The pottery, which is their chief product, is almost all of one shape, a sphere, with three handles and a narrow bottle-neck with a flat lip. The decoration does not vary. Both shape and design, how-

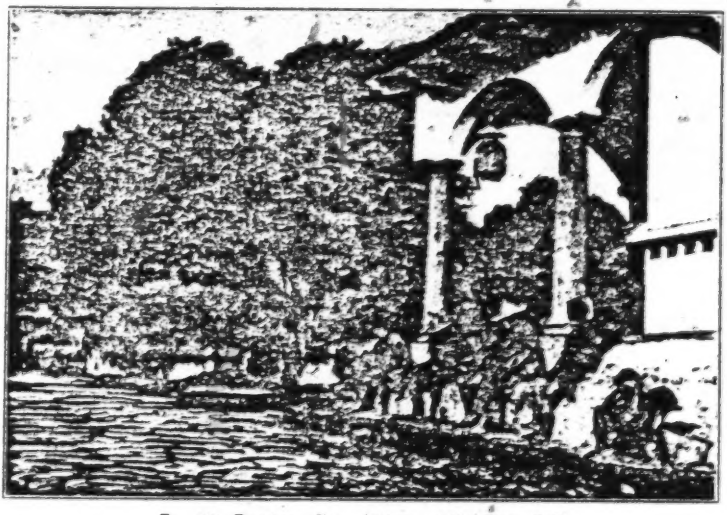

FIG. 332—Tenejapa, Chis. Indians at the Town Hall.

ever, are of considerable charm. The polish is fine and smooth, giving an even golden-red colour all over, with the decoration in a deep, reddish brown. No such fine, finished work is done by other tribes in the area. The pots are baked by placing them on a rectangle of boards, two or more meters square, around a hot fire. The woman in charge turns them until they are done (fig. 333). These pots are carried by the men as far as San Cristóbal, where they are redistributed, and to Nenton in Guatemala. Their industry is sufficient to enable them to maintain mules for carrying their goods, although both men and beasts are equally loaded.

71 Nash E-5 (1957-1967) 1970 NV9 Tzeltal NV9
Amatenango del Valle

342 177 435 [492] construction used thatch or palm leaves carried from hot country. These cost only the price of renting a horse, if it was necessary, for transportation. Roofs made of these materials have to be replaced every seven or eight years. Each rethatching requires three days' work with four or five helpers, and the houseowner must provide a meal for them and their families. He spends about 25 pesos for meat and uses two or three liters of corn; the total cost is about 75 pesos. Another kind of roof is made of wooden shingles bought in the neighboring town. These are fixed to the housetops with wooden pegs, and the total cost is about 200 pesos. This lasts ten or twelve years with replacement of individual shingles. Tile roofs have the highest initial cost, 800 pesos, but the lowest maintenance in labor.

342 435

TABLE 13. Construction Costs for House, 1965

	Cost (pesos)
Supplies	
Roof tiles (1,000)	800
Posts and poles	*
Planks	40
Door	100
Window frame	30
Services	
Transportation of tiles	30
Transportation of posts and poles	206
Carpenter	50
Food for helpers	75
TOTAL	1,331

* Obtained free from communal woods.

342 House walls are preferably made of mud mixed with lime poured into an interlacing of cane poles set between the house posts and tied with a handmade fiber rope. Another temporary type of construction, which does not offer as good insulation, is made of board planks. Sweatbaths are 343 made by digging out a floor about 2.5 meters square, raising stones in an oval shape over this, and plastering them with mud. The I.N.I. tried to introduce latrines, but no more than a half dozen of the cement toilet seats they gave away as demonstrators were put into use. Latrines are considered to be dirty since the pigs and dogs cannot scavenge the feces.

[514] [647] [177] [231]

7t Nash E-5 (1957-1967) 1970 NV9 Tzeltal NV9
Amatenango del Valle

usual, and seeing the pesos, picked them up. The "spirit of the money" left the village forever. The story reveals not only the sense of deprivation Indians feel in losing wealth to Ladinos (historically land the Indians had lost through fraud or legal trickery during the Porfirio Diaz period), but also their realization of their own responsibility for letting their assets slip out of their control.

Payment of interest on money borrowed is justified in the calculations of the Indians for loans made within as well as outside of the community. Interest, called *shol tak'in*, or "head" of money, makes it possible for the borrower to work, and thus to earn, so the "owner" has the right to charge for the use. The rate on loans made within the pueblo has risen from 2 or 3 pesos a month for 100 pesos to 5 pesos, thus equalizing the rate with that charged in the neighboring Ladino town. The same rate is applied between relatives as nonkin. The advantage of intracommunity borrowing is that the lender does not demand an immediate return, or as high security. Ladinos of the neighboring town tend to demand items of greater value than the debt held as security—one Ladino held title to land worth 1,000 pesos for a 50-peso debt, and threatened to foreclose. Within the pueblo, security of about the same value as the loan is asked except in the case of neighbors and relatives who can be reminded every day of the debt. And they are.

Markets. In marketing, the Indians of Tzo?ontahal have neither extended nor gained control over the selling and buying operations that have been pursued since before the opening of the Pan-American Highway in 1955. The pottery which is produced locally was formerly carried on horseback to the smaller towns within a radius of fifty miles. The pottery was marketed directly by the men of the household which produced it, with no specialization in trading by commercial travelers, as had happened in the Zapotec and other areas of Mexico. Since the penetration of the Pan-American Highway, the men take the pottery produced in their households by bus or on the trucks to either San Cristóbal or Comitán. This tends to polarize trading operations and dry up the traffic into small towns not connected by the highway. As a result, the wholesale trade in San Cristóbal and Comitán has increased in the past decade, with dealers

7: Nash E-5 (1957-1967) 1970 NV9 Tzeltal NV9
Amatenango del Valle

the regidores were seated in their customary places; the alfereces sat on the visitors' bench. The two former alfereces went before the two newly appointed alfereces and gave an account of what was going to take place, instructing them on "how they should make a fiesta."

When the two former alfereces entered, they went to the president, saying, "How does the Lord see you alive on this holy afternoon?" They then went to the síndico and the regidores and ended with the judges, exchanging a pat?o?tan.

The alfereces went out, mounted their horses, and were handed the banners by the regidores. The two old alfereces received their banners first. All four made the sign of the cross, first facing the cabildo, then the church, and then rode in procession, preceded by the flutist, two drum players, and a guitarist, and followed by the other horsemen. They stopped before the church, dipping their flags, first toward the church and then the cabildo. The president, síndico, and first judge walked across the plaza to the church as the church bells were rung, and all the musical instruments played—the marimba, bell, drums, and flute. The alfereces dismounted and put their banners in the church.

The final day, called Lahinbahel Sk'in, *was spent sobering up, putting things back in order, and returning borrowed items.*

Although Santiago is not one of the major saints, a major celebration is given in his honor because of the high value placed on horsemanship in this community. Before the construction of the Pan-American Highway in 1953 everyone in town had horses which were used to carry the pottery to market. Riding skills were developed in the free-swinging *macho* (manly) style of northern Mexico's cowboys. Even today when horses are not as economically useful the horse culture has survived. The running of the horses in the fiesta is not competitive. Each rider does his best to tear at high speed across the plaza, but there is no specific goal. Since the drunken riders often fall and are injured, some of the excitement is based on the potential danger.

The behavioral data on which the analysis of rituals depends are included because they provide a basis for comparison with neighboring